PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: L'AIR LIQUIDE S.A. Attn. Vesin, Jacques 75, quai d'Orsay T5321 PARIS CEDEX DIRECTION DE LA PROPRIETE INTELLE	
REÇU LE: 18 OCT. 2004	(PCT Rule 44.1)
PAR : Francine CARLIER	Date of mailing (day/month/year) 19/10/2004
Applicant's or agent's file reference TANT FACTURE: FC S6070 JV/PL	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/IB2004/001346	International filing date (day/month/year) 08/04/2004
Applicant L'AIR LIOUIDE, SOCIETE ANONYME A DIRECTO:	IRE ET
	report and the written opinion of the International Searching
Authority have been established and are transmitted herewing Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is non International Search Report; however, for more Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fare For more detailed instructions, see the notes on the account of the Irect and the written opinion of the Irect and I	th. Ins of the International Application (see Rule 46): In ally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. In chemin des Colombettes ascimile No.: (41–22) 740.14.35 Impanying sheet. In report will be established and that the declaration under international Searching Authority are transmitted herewith. In the contraction of the contraction
no decision has been made yet on the protest; the app	etest and the decision thereon to the designated Offices. plicant will be notified as soon as a decision is made.
4. Reminders Shortly after the expiration of 18 months from the priority date, the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Before the completion of the technical preparations for internation. The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be a sentence.	publication, a notice of withdrawal of the international sureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, and publication. written opinion of the International Searching Authority to the of such comments to all designated Offices unless an
the public but not before the expiration of 30 months from the prior Within 19 months from the priority date, but only in respect of so examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Offices.	ority date. me designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed fices.
In respect of other designated Offices, the time limit of 30 month months. See the Annex to Form PCT/IB/301 and, for details about the apple Guide, Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Maria Van der Hoeven

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
S6070 JV/PL	ACTION		as, where applicable, item 5 below.
International application No.	International filing date (day/mon	th/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2004/001346 '	08/04/2004	1	17/04/2003
Applicant			
TARE TOUTER COCTERE AND	NVME & DIDECTOIDE ET		
L'AIR LIQUIDE, SOCIETE ANG	DNYME A DIRECTOIRE ET		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Sea ansmitted to the International Burea	arching Autho	ority and is transmitted to the applicant
This International Search Report consists	of a total of <u>4</u> st	neets.	
X It is also accompanied by	a copy of each prior art document	cited in this r	report.
	international search was carried ou ess otherwise indicated under this		is of the international application in the
The international this Authority (Ru		s of a transla	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequenc	e disclosed i	n the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the title,			
X the text is approved as su	bmitted by the applicant.		
the text has been establis	shed by this Authority to read as foll	lows:	
E Mith regard to the chatmat			
5. With regard to the abstract, X the text is approved as su	ubmitted by the applicant.		
the text has been establis	shed, according to Rule 38.2(b), by		y as it appears in Box No. IV. The applicant
may, within one month fro	om the date of mailing of this intern	auonai searc	th report, submit comments to this Authority.
6. With regards to the drawings ,			
a. the figure of the drawings to be p		e No. <u>1</u>	
X as suggested by the		failed to suc	neet a figure
	is Authority, because the applicant is Authority, because this figure be	_	
	e published with the abstract.		

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/001346

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C23C16/34 C23C16/448

C. DOCUMENTS CONSIDERED TO BE RELEVANT

ISSN: 0040-6090 page 144 - page 145

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

Category ° Citation of document, with indication, where appropriate, of the relevant passages

х	US 2001/048973 A1 (OHMINE TOSHIMITSU ET AL) 6 December 2001 (2001-12-06)	1-8, 10-16
Y	paragraph '0031! - paragraph '0047!; claims 1-4,7-11; figures 1,6-9; example 1; compound 9	9
X	SMIRNOVA T P ET AL: "SiCN alloys obtained by remote plasma chemical vapour deposition from novel precursors" PREPARATION AND CHARACTERIZATION, ELSEVIER SEQUOIA, NL,	10,11, 15-17
	vol. 429, no. 1-2, 1 April 2003 (2003-04-01), pages 144-151, XP004421425	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
11 October 2004	19/10/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lavéant, P

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Relevant to claim No.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/001346

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Citation of document, with indication, where appropriate, or the restaur passages	
X Y	VORONKOV M G ET AL: "Silyl derivatives of asymmetric dimethylhydrazine as a regents for synthesis of composite layers in silicon-structures" IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII, MATERIALY ELEKTRONNOI TEKNIKI, vol. 4, 2002, pages 57-60, XP002278439 abstract & DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2002, retrieved from STN Database accession no. 140:85266 abstract	9
E	EP 1 441 042 A (AIR PROD & CHEM) 28 July 2004 (2004-07-28)	1,2,7,8, 10,11, 15,16
	claims 1-4,9,12-15; examples 7-12; table 2	
Α	US 2001/024867 A1 (SAIDA SHIGEHIKO ET AL) 27 September 2001 (2001-09-27) claims 7-16; figure 13	1-17
A	GB 1 006 803 A (STANDARD TELEPHONES CABLES LTD) 6 October 1965 (1965-10-06) page 1, column 2, line 56 - line 84; claims 1-10	1-17

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB2004/001346

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2001048973	A1	06-12-2001	JP	2000080476	Α	21-03-2000
EP 1441042 A	Α	28-07-2004	US	2004146644	A1	29-07-2004
			EΡ	1441042	A1	28-07-2004
			JP	2004228585	Α	12-08-2004
US 2001024867	A1	27-09-2001	JP	11074485	A	16-03-1999
			US	6284583	B1	04-09-2001
GB 1006803	А	06-10-1965	BE	643786	Α	14-08-1964
			BE	643787		14-08-1964
			BE	643788	Α	14-08-1964
			ΒE	647620	Α	09-11-1964
			СН	419352	Α	31-08-1966
			DE	1207510	В	23-12-1965
			DE	1242760	В	27-02-1975
			DE	1227757	В	
			FR	1382625		18-12-1964
			FR	85677		24-09-1965
			GB	991263		05-05-1965
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			NL	302325		
			NL	302326		
•			NL	6405186		11-11-1964
			US	3297500	Α	10-01-1967

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples Illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)